

nal Application No PCT/GB 03/02701

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J23/22 B01J27/20

B01J23/75

B01J23/755

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \hline \text{Minimum documentation searched (classification system followed by classification symbols)} \\ \hline \textbf{IPC 7} & \textbf{B01J} \\ \hline \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of t	he relevant passages	Relevant to claim No.		
X	US 4 608 359 A (FIATO ROCCO A 26 August 1986 (1986-08-26) column 3, line 9 -column 6, liclaims; examples; tables		1-17		
X	US 4 559 365 A (FIATO ROCCO A 17 December 1985 (1985-12-17) the whole document	ET AL)	1-17		
Α	US 2 230 267 A (SAMUEL RUBEN) 4 February 1941 (1941-02-04) the whole document				
X	US 4 113 658 A (GEUS JOHN W) 12 September 1978 (1978-09-12) column 10, line 42 - line 65 column 14, line 39 - line 44; figures; examples; tables		1-17		
X Furt	I	Patent family members are listed	in annex.		
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed		 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 			
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report		
4	December 2003	18 DEC.	2003		
Name and mailing address of the ISA European Petent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Authorized officer de Cauwer, R			



Inte nal Application No PCT/GB 03/02701

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	n) DOCUMENTS CONSIDERED TO BE RELEVANT	12.
Category * Ci	itation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 3 853 791 A (FEINS I) 10 December 1974 (1974-12-10) column 3, line 35 - line 49 column 7, line 4 - line 30; claims; examples; tables	1-17
x	US 4 522 940 A (SAMBROOK RODNEY M ET AL) 11 June 1985 (1985-06-11) column 2, line 50 -column 3, line 25; claims; examples; tables	1-17
X	US 4 469 815 A (SAMBROOK RODNEY M ET AL) 4 September 1984 (1984-09-04) column 2, line 15 - line 40 column 3, line 37 -column 56; claims; examples; tables	1-17
	,	

INTERNATIONAL SEARCH REPORT

national application No. PCT/GB 03/02701

Box Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. X As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 1-17 (partially)
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report Is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: claims 1 - 17 (partially: in as far as they relate to the incorporation of V, Cr, Mn, Fe or Cu)

process for preparing a supported catalyst or catalyst precursor containing carbon, further comprising a V, Cr, Mn, Fe or Cu-containing compound; and a process for carrying out a F-T synthesis, hydrotreating, hydrocarbon partial oxidation, steam reforming or carbon dioxide reforming reaction with a catalyst prepared by said preparation process.

2. Claims: claims 1 - 17 (partially: in as far as they relate to the incorporation of Mo or W)

process for preparing a supported catalyst or catalyst precursor containing carbon, further comprising a Mo- or W-containing compound; and a process for carrying out a F-T synthesis, hydrotreating, hydrocarbon partial oxidation, steam reforming or carbon dioxide reforming reaction with a catalyst prepared by said preparation process.

3. Claims: claims 1 - 17 (partially: in as far as they relate to the incorporation of Co and/or Ni), 19 (partially: without a promotor)

process for preparing a supported catalyst or catalyst precursor containing carbon, further comprising a Co and/or Ni-containing compound; and a process for carrying out a F-T synthesis, hydrotreating, hydrocarbon partial oxidation, steam reforming or carbon dioxide reforming reaction with a catalyst prepared by said preparation process.

4. Claims: claims 1 - 17 (partially: in as far as they relate to the incorporation of Co and/or Ni), 18 and 19

a supported catalyst or catalyst precursor containing carbon, further comprising a Co and/or Ni-containing compound and additionally comprising a promotor compound; a process for preparing a said catalyst or catalyst precursor; and a process for carrying out a F-T synthesis, hydrotreating, hydrocarbon partial oxidation, steam reforming or carbon dioxide reforming reaction with a catalyst prepared by said preparation process.

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FURTHER INFORMATION CONTINUED FROM	PCT/ISA/	210		
				
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**Toronation on patent family members

nal Application No PCT/GB 03/02701

	nt document search report		Publication . date		Patent family member(s)	Publication date
IIS 4	608359	Α	26-08-1986	US	4559365 A	17-12-1985
JU 41		••		ÇA	1250566 A1	28-02-1989
				DE	3561687 D1	07-04-1988
				DE	170408 T1	12-06-1986
				EP	0170408 A1	
						05-02-1986
				JP	1060295 B	21-12-1989
				JP	1575562 C	24-08-1990
				JP	61050641 A	12-03-1986
US 4	559365	Α	17-12-1985	CA	1250566 A1	28-02-1989
				DΕ	3561687 D1	07-04-1988
				DE	170408 T1	12-06-1986
				EP	0170408 A1	05-02-1986
				ĴΡ	1060295 B	21-12-1989
				ĴΡ	1575562 C	24-08-1990
	•			JP	61050641 A	12-03-1986
				US:	4608359 A	26-08-1986
US 2	230267	Α	04-02-1941	NONE		
US 4	113658	Α	12-09-1978	NL	6705259 A ,B	15-10-1968
				NL	6712004 A ,B	04-03-1969
				AT	289040 B	25-03-1971
				AT	300736 B	10-08-1972
				BE	713656 A	14-10-1968
				CH	517522 A	15-01-1972
				DE	1767202 A1	18-03-1971
				DK	124925 B	11-12-1972
				ES	352710 A1	16-04-1970
				FR	1569895 A	06-06-1969
				GB	1220105 A	20-01-1971
				JP	50002398 B	25-01-1975
				SE ·	345393 B	29-05-1972
US 3	853791	A	10-12-1974	CA	1021313 A1	22-11-1977
				US	3947379 A	30-03-1976
US 4	522940	Α	11-06-1985	CA	1196907 A1	19-11-1985
'		••		AT	21836 T	15-09-1986
				BR	8104565 A	06-04-1982
				EP	0044117 A2	20-01-1982
				GB	2080136 A ,B	03-02-1982
				JP	1606211 C	31-05-1991
				JP	2030740 B	09-07-1990
				JP	57091740 A	08-06-1982
				DE	3175264 D1	09-10-1986
US 4	469815	Α	04-09-1984	AT	48952 T	15-01-1990
				BR	8104564 A	06-04-1982
				DE	3177137 D1	01-02-1990
				EP	0044118 A2	20-01-1982
				GB	2080135 A ,B	03-02-1982
				JP	1812255 C	27-12-1993
					5009136 B	04-02-1993
				JP		
				JP US	57045349 A 4530918 A	15-03-1982 23-07-1985